GRT
ADMIXTURES
FOR CONCRETE

Polychem 400 NC

Water Reducing Admixture

Polychem 400 NC is a normal setting, multi-component, highly concentrated, water reducing admixture conforming to ASTM C 494 Type A.

Polychem 400 NC will reduce the quantity of water required to produce concrete of a desired consistency, while providing greater economy for a given strength. It will increase strengths and improve workability and finishing characteristics.

Polychem 400 NC does not contain calcium chloride, and is compatible with air-entrained or non air-entrained mixes.

Applicable Standards

General Resource Technology **Polychem 400 NC** meets and will exceed the requirements of ASTM C 494, Type A CRD C 87, AASHTO M 194.

Independent laboratory tests are available upon request.

Advantages

Plastic Concrete

- Reduced mix water requirement needed to produce a given slump or consistency (reduced water/cementitious ratio)
- Reduced cracking and shrinkage
- Improved workability
- Will not retard the rate of set when used at recommended dosage rates

Hardened Concrete

- Increased compressive and flexural strengths
- Reduced cracking and shrinkage
- Reduced permeability and increased water-tightness
- Increased freeze-thaw resistance
- Superior surface appearance

Dosage Rates

3 to 5 oz. per 100 lbs. cementitious material.

Technical Service

General Resource Technology has trained representatives as well as technical consultants available to all specifiers and users to assist with field use and promotion, specifications, and dispenser services. General Resource Technology highly recommends that these services be utilized to ensure maximum performance and benefits while using **Polychem 400 NC**.

Compatibilty

Polychem 400 NC is compatible with approved air entrainment admixtures, calcium chloride, stearates and similar chemical derivatives.
Polychem 400 NC does not itself entrain air significantly.

Specification Suggestions

All concrete shall contain **Polychem 400 NC**, ASTM C494, Type A normal setting water reducer, produced by General Resource Technology, Eagan, MN. Suggested dosage rate shall be 3-5oz. per 100 wt. of cementitious material unless otherwise recommended by General Resource Technology Technical Services.

General Resource Technology, Inc. ■ 2978 Center Court ■ Eagan, Minnesota 55121-1257
Sales: (800) 324-8154 ■ Corporate: (651) 454-4151 ■ Fax: (651) 454-4252
Visit our Web Site: www.grtinc.com

Polychem 400NC

Water Reducing Admixture

AVAILABILITY

Polychem 400 NC is available in bulk or 55 gallon drums.

General Resource Technology will install, service and maintain dispenser systems for bulk admixture purchasers.

WARRANTY

General Resource Technology warrants **Polychem 400 NC** to be free from defects in materials and manufacture. General Resource Technology is not responsible for conditions outside it's control, including other materials, workmanship, design, inspection, supervision, labor, ambient temperature and field conditions, which are the proper responsibility of others.

HANDLING

Polychem 400NC is a polymeric blend of raw materials which have been found to be environmentally safe. **Polychem 400 NC** can be used at temperatures as low as 23°F. Care should be exercised to prevent freezing below this temperature; freezing will not damage **Polychem 400 NC** if thawed and agitated. MSDS availlable.

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

DEVIN D GATES
SUBMITTED BY

033000-01
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

033000
SPECIFICATION SECTION / PARAGRAPH

MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

◯ Shop Drawings
◯ Samples
(_____ copies)
◯ LEED Submittal
◯ Certification / Qualifications
◯ Record Documents
◯ Product Data
◯ Coordination Drawing
◯ Calculations
◯ Schedules
◯ O&M Manuals
◉ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

DEVIN D GATES
REVIEWED BY

041516
DATE

To be completed by Reviewer

03 3000-001
CANNON DESIGN SUBMITTAL NUMBER

4/15/16
RECEIVED DATE

◯ A. No Exceptions Taken
No further review of submittal is required.

◯ B. Make Corrections Noted
Incorporate corrections in work; resubmission is not required.

◯ C. Revise and Resubmit
Revise as noted, and resubmit for review.

◯ D. Rejected
Submittal is not in compliance with Contract Documents; provide new submittal.

◯ E. For Record / Information Only
Submittal was reviewed for Record / Information purposes only.

◯ F. Not Required for Review
Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ◯ See attached sheet(s) for additional comments

SHOP DRAWING / SUBMITTAL REVIEW

☒ NO EXCEPTION TAKEN
☐ EXCEPTIONS NOTED, RESUBMITTAL NOT REQUIRED
☐ REJECTED
☐ REVIEWED FOR INFORMATION ONLY
☐ REVISE AND RESUBMIT AS NOTED

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: Dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques of the construction, coordination of his work with that of all other trades and the satisfactory performance of his work.

DAVID MASON & ASSOCIATES, INC.

REVIEW BY: JYW / DMA DATE: 04/19/2016

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0016

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 04/15/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Footing and foundation wall mix design

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☐ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☑ Attached	☐ Returned for Corrections
☑ Other: Mix design	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		033000-01	1		04/15/2016	Footing and foundation wall mix design	Open

NOTES:

CC:

Signed: _____

Devin Gates

KCI Construction Company, Inc.
ST. LOUIS: 10315 Lake Bluff Drive | St. Louis, MO 63123
LEBANON: 119 West Fremont | Lebanon, MO 65536

O: 314.894.8888
F: 314.894.7418
www.kciconstruction.com

SUBMITTAL TRANSMITTAL

Date Sent: 04/08/2016

Project: Webster University – Interdisciplinary Science Building

Project #: 16-008

Subject: 03 3000 Cast-In-Place Concrete – Footing & Foundation Wall Mix Designs

Submittal ID: 0001

Type: Submittal

Purpose: For Approval

Sent Via: Email (PDF)

Transmitted To:

Devin Gates
Paric
77 Westport Plaza, Suite 250
St. Louis, MO, 63146
Phone: (636) 561-9592
Email: ddgates@paric.com

Transmitted From:

Kyle Nieman
KCI Construction Company
10315 Lake Bluff Drive
St. Louis, MO 63123
Phone: (314) 200-6486
Email: knieman@kciconstruction.com

Contents:

Qty: 1 Dated: 04/08/2016 Submittal Package No.: 0001 – 03 3000 – 00

Description: 03 3000-00_Cast-In-Place Concrete – Footing & Foundation Wall Mix Designs

Remarks: Please review and return at your earliest opportunity. Thanks,

Kyle Nieman 4/8/16

Kyle Nieman
KCI Construction Company

KCI Construction Company, Inc.
ST. LOUIS: 10315 Lake Bluff Drive | St. Louis, MO 63123
LEBANON: 119 West Fremont | Lebanon, MO 65536

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WEBSTER UNIVERSITY – INTERDISCIPLINARY SCIENCE BUILDING

St. Louis, MO

Submittal Description: Cast-In-Place Concrete – Footing & Foundation Wall Mix Designs

Submittal #: 0001 – 03 3000 – 00

Notes:

This submittal/drawing has been reviewed and found to be in general conformance with the contract documents.

APPROVED	X
APPROVED AS NOTED	
REVISE AND RESUBMIT	

03 3000
SPEC SECTION

04/08/2016
DATE

4/8/16

KYLE NIEMAN
KCI CONSTRUCTION CO.